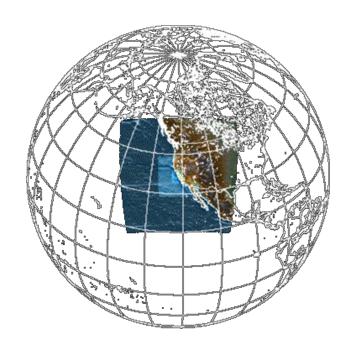
COAMPS -- On-Scene (OS)



Updated: January 25, 2001

Previous Acronyms of the system

STAF-C
DAMPS
TAMS/RT

Introduction

Automated portable atmospheric system. Performs,

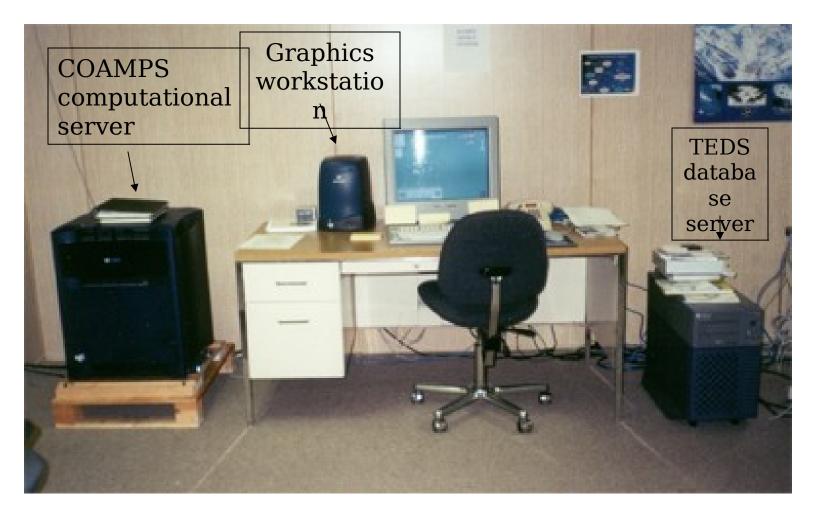
- Data assimilation
- Nowcast
- Forecast

Atmospheric Data Available

- Uses Large-scale model or mesoscale model gridded data fields as a first guess
 - NOGAPS
 - Its own forecast
- Augments first guess fields with observations
 - satellite data, etc.

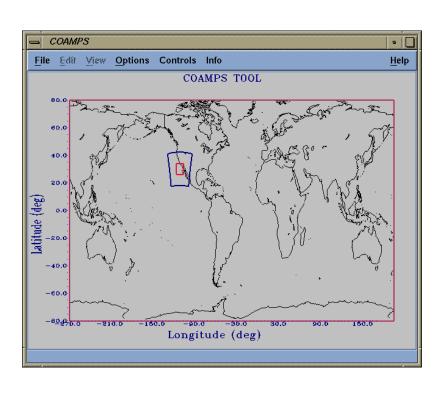
- 1. Pulls data from FNMOC databases
 - uses FTP and HTTP formats
 - Stores data in database
- 2. No tropical Bogus
- 3. Ingests --
 - NOGAPS Fields
 - OBS from Metcast,
 - Remote OBS via DPS
 - NO Bogus for tropicals
 - Local Observation
 - Uses CODA anal for sea temp!
 - Uses SFC bottom SST

Equipment



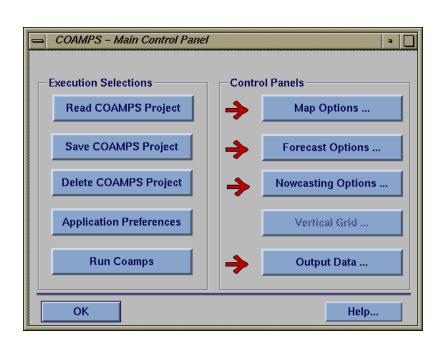
(Estimated cost -> \$100,000 per unit, not installed)

Area Selection Dialog



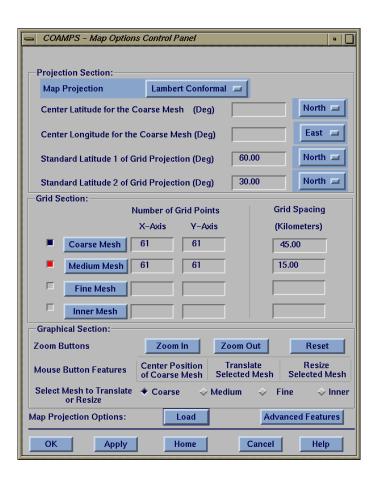
- Similar to METCAST selection tools
- Important to understand the influences of the topography
- Place nests over terrain to get effects from it.
 - Don't locate over water only...

Main Control Panel



 Red arrow indicate information is needed prior to starting run.

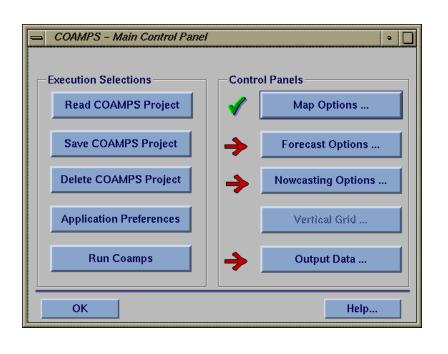
Map Option Control Panel



- Setup size of nests
- 81km first mess adjusted down to whatever resolution needed
- Smaller the grid spacing gets the quicker the error introduced
 - 10km good for 24 hrs

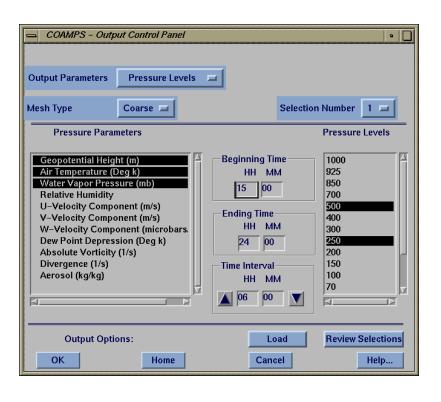
_

Map Options - Complete



- Green check means enough information has been entered
- The Map, Forecast, Nowcasting, Vertical Grid, and Output Data must have a green check prior to starting the run.

Output Control Panel



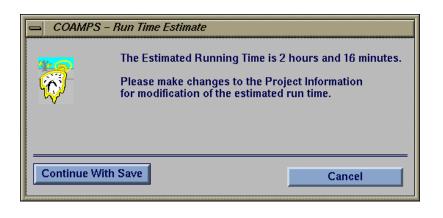
- Understand the products and what parameters go into them.
- A forecaster must know what factors they are going to be looked at?
 - Which products are needed to solve the forecast question.
 - Example
 - TLAM support
 - Icing

Once Complete...



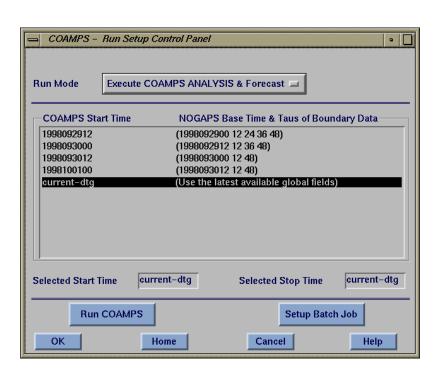
- The system is ready to begin the COAMPS run!
- How long will it take?

Run Time Estimate



- Before the run starts the program gives an estimate running time.
- Factors that change the run time length.
 - Resolution
 - Size of area
 - Number of products

Run Setup Control Panel



- That's it!
- Run COAMPS!

Important factors to know

- Ability to control if system performs a hot or cold start
- O2 graphics machine is used to create gif images to view the data
 - WXMAP format
 - Holds past history of five days

- With a METCAST server installed it could be view via JMV.
- Products can be meteogram, or mercator (flat)chart
- Has Nowcast Option
 - RUC style of forecasting
 - Anal every hour

More...

- Could be used to forecast refractivity using tomorrow sounding!
- Can move a project to new area

References

- STAFC User Manual -- 2 November 1999
 - http://stratus.nrlmry.navy.mil/mon_html/TAMSRT_UM/